PATENT COOPERATION TRE 'TY

From NTE	the RNATIONAL SEAI	RCHING AUTH	ORITY		12/1/2			
To:	see form	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)				
				Date of mailing (day/month/year) see	e form PCT/ISA/210 (second s	heet)		
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below				
International application No. PCT/JP2005/006411			International filing date (d 25.03.2005	31.03.2004		r)		
	national Patent Class K7/48	sification (IPC) or	both national classification	and IPC				
	icant OWA DENKO K.	K.						
1.	This opinion co	ontains indicati	ons relating to the foll	owing items:				
	☑ Box No. I Basis of the opinion							
	☐ Box No. II	Priority						
	☐ Box No. III		ment of opinion with rega	ard to novelty, inventiv	re step and industrial applic	ability		
	☐ Box No. IV	Lack of unity o	f invention					
	☑ Box No. V		ement under Rule 43 <i>bis</i> itations and explanations		novelty, inventive step or in ement	ndustrial		
	☐ Box No. VI	Certain docum	ents cited	ŧ				
	☐ Box No. VII	Certain defect	s in the international app	olication				
	Box No. VIII	Certain observ	ations on the internation	nal application				
2.	FURTHER ACT	ION						
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
	For further optio	•						
3.	For further detai	ls, see notes to	Form PCT/ISA/220.					
Name and mailing address of the ISA: Authorized Officer								

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/006411

IAPS Rec'd PCT/PTO 28 SEP 2006

			2000				
	Box N	10. l	Basis of the opinion				
1.		With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	la	angua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).				
2.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type	a. type of material:					
		a, se	equence listing				
		table	e(s) related to the sequence listing				
	b. format of material:						
		in w	vritten format				
		in co	omputer readable form				
	c. time	e of fil	ling/furnishing:				
		con	tained in the international application as filed.				
		filed	d together with the international application in computer readable form.				
		furn	nished subsequently to this Authority for the purposes of search.				
3.	h: C	as becopies	ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as oriate, were furnished.				
4.	Additional comments:						

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3

No:

No:

Claims

Claims

1-2,4-7

Inventive step (IS)

Yes: Claims

No: Claims

1-7

Industrial applicability (IA)

Yes: Claims

1-7

2. Citations and explanations

see separate sheet

Re Item V.

1 Reference is made to the following documents:

D1: XP002333461

D2: XP002333462

D3: US 6 586 588 B1

D4: WO 02/33034 A

D5: JP 11 180818 A

D6: XP009049312

D7: ID 00 044404 A

D7: JP 08 041104 A

D8: XP002072527

2 INDEPENDENT CLAIM 1

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

 Document D1 discloses a cosmetic emulsion containing 5% LaraCare A200 and providing moisturization to the skin (p.1). This additive is also known as galactoarabinan (p.2) which is a highly branched polysaccharide (D2 Lärchengummi Typ II figure b). One manner of defining polysaccharides is given in D3 (col.2, l.50-54, 59-62; col.3, l.48, 49, 61). According to this definition galactose and arabinose are the anhydrosugar units for LaraCare A200. Moreover, branched and multi-branched are equivalent terms as multi is a vague prefix which can not be relied upon to distinguish the claimed invention from the prior art (PCT Guidelines 5.34). D1 is therefore considered to be prejudicial to the novelty of not only claim 1 but also claims 2 and 4 to 7.
- 2.2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D4 discloses (ex.1) a detergent composition containing 1wt% of carboxymethyl guar as anionic polysaccharide (p.15, l.24-27). This polymer is described (p.2, l.16-30) as having anhydrohexose units in the backbone and anhydropentose and/or anhydrohexose units in the branches. A cosmetic use as external preparation for the skin is not disclosed. The detergent composition is

nevertheless suitable for such a use (PCT Guidelines 5.21) and therefore anticipates the subject-matter of claims 1, 2 and 4 to 7.

- 2.3 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D5 discloses (PAJ abstract) a skin preparation for external use containing glycogen or amylopectin as branched polysaccharide. A similar reasoning as in §2.1 leads to the conclusion that claims 1, 2 and 4 to 7 lack novelty with respect to D5.
- 2.4 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D6 discloses (top right col. p.84) a moisturizing solution containing 0.4% LC-Glusc which is a β-(1,6)-branched β-(1,3)-glucan (bottom right col. p.80). A similar reasoning as in §2.1 leads to the conclusion that claims 1, 2 and 4 to 7 lack novelty with respect to D6.
- DEPENDENT CLAIMS 2-7
 Dependent claims 2-7 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT):
- 3.1 Dependent claims 2 and 4 to 7 lack novelty with respect to D1, D4, D5 and D6 (see reasoning under §2).
- 3.2 Dependent claim 3 can not be considered as involving an inventive step in the sense of Article 33(3) PCT with respect to D6 to D8.

 It is known from D6 and D8 that immunity activation of glucans results in moisturizing properties. It is therefore not surprising that the polysaccharides according to present claim 3, which are known to be immunity activating (D7 cl.8, §16), are moisturizers. The comparative examples in the present application compare the moisturizing polysaccharides according to present claim 3 to compounds such as glycogen, glycine, xanthan gum (known as skin-conditioners in the CTFA Handbook) and hydroxyethylcellulose (known as film-former in the CTFA Handbook) which are not conventionnal moisturizers.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2005/006411